

SMIRNOV, G.

Trial and error. Prof.-tekh. obr. 22 no.9:25-26 S '65. (MIRA 18:9)

SMIRNOV, G.

Centralized transportation of semifinished building materials.  
Avt. transp. 43 no.10:14-15 0 '65. (MIRA 18:10)

1. Transportnoye upravleniye Glavsevkavstroya.

SMIRNOV, G., gvardii podpolkovnik, voyenny; letchik pervogo klassa

Every flight is a step to mastership. Av.i kosm. 46 no.6:48-51  
Je '63. (MIRA 16:8)

(Flight training)

SMIRNOV, G., inzh.

Curious phenomena of great importance. Tekh.mol. 30  
no.9:39-40 '62. (MIRA 15:9)  
(Marine engineering)

SMIRNOV, G., inzh.

External combustion engine. Tekh.mol. 29 no.4:4 Ap '61.  
(MIRA 14:5)

(Gas and oil engines)

SMIRNOV, G., ekonomist

Exercise strictest financial control over the assignment of capital investment limits. Fin. SSSR 22 no.3:81-83 Mr '61.

(MIRA 14:7)

1. Nauchno-issledovatel'skiy institut ekonomiki stroitel'stva Akademii stroitel'stva i arkhitektury SSSR.

(Construction industry—Finance)

(Banks and banking)

SMIRNOV, G., podpolkovnik

Aviator came to the shipbuilders. Starsh.-serzh. no.4:30 Ap  
'62. (MIRA 15:4)

(Planing hulls)

SMIRNOV, G., podpolkovnik

The foremost aviation unit. Komm. Vooruzh. Sil 46 no.2:  
48-53 Ja '66. (MIRA 19:1)



SMIRNOV, G., inzh.

Flasks instead of machine tools. Izobr. i rats. no. 4:14-17  
'63. (MIRA 16:7)

(Electric metal cutting)  
(Electrochemistry, Industrial)

SMIRNOV, G., inzh.

A whirlwind does the smelting. Tekh.mol. 29 no.9:36 '61.  
(MIRA 14:10)  
(Metallurgical furnaces)

SMIRNOV, G., inzh.

Hydroelectric-power plants without turbines. Nauka i tekhnolozhiya  
14 no.10:26 0 '62.

BLAGMAN, B.; SMIRNOV, G.

Two years of working in the new way. Prof.-tekh.obr. 20  
no.2:4-7 F '63. (MIRA 16:2)

1. Direktro Dnepropetrovskogo gorodskogo professional'no-  
tekhnicheskogo uchilishcha No.1 (for Blagman).  
(Building trades—Study and teaching)

SMIRNOV, G.

Programmed instruction. Prof.-tekh. obr. 21 no.7:17-19 J1 '64.  
(MIRA 17:11)

SMIRNOV, G.

Mechanization of computing operations. Avt. transp. 41  
no.12:26-28 D '63. (MIRA 17:1)

SMIRNOV, G.

One hundred years old, but still young science. Nauka i  
tekh mladezh 16 no. 3:18-23 Mr '64.

SMIRNOV, G. A.: Master Phys-Math Sci (diss) -- "A transformation of generalized methods of summing series". Moscow, 1959. 4 pp (Moscow City Pedagogical Inst im V. P. Potemkin), 150 copies (KL, No 16, 1959, 106)



32-6-46/54

**AUTHOR** SMIRNOV, G.A.  
**TITLE** On the Construction of Spiral Spring Dynamometers.  
(O konstruirovani pruzhinnykh dinamometrov krucheniya.-  
Russian)  
**PERIODICAL** Zavodskaya Laboratoriya 1956, Vol 23, Nr 6, pp 762-762  
(U.S.S.R.)  
**ABSTRACT** The author criticizes a work published by V.M. GARBARCHUK  
under the same title in Zavodskaya Laboratoriia 1956, Vol 22,  
Nr 12 and declares that it only misleads constructors. The  
error committed by GARBARCHUK consists in the fact that  
although GARBARCHUK gives a correct formulation of the oscil-  
lation moment of the machine, he forgets the oscillation  
moment of the half-socket of the dynamometer. Calculations  
carried out in this connection show that the use of light  
metals for the production of such half sockets practically  
does not change the eigenfrequency of the system "machine-  
dynamometer-motor", and that therefore constructors should  
make a point of not projecting light metal half sockets (as  
recommended by GARBARCHUK), but to see to a sufficient  
degree of hardness for the measuring system because the intro-  
duction of a measuring spiral of insufficient hardness may

CARD 1/2

GRIGOR'YEV, M.A., kand.tekhn.nauk; SMIRNCV, G.A.

Dimension series for centrifuges. Avt.prom. 28 no.5:17-20  
My '62. (MIRA 15:5)

1. Gosudarstvennyy soyuznyy ordena Trudovogo Krasnogo Znameni  
nauchno-issledovatel'skiy avtomobil'nyy i avtomotornyy institut  
i Gosudarstvennyy soyuznyy nauchno-issledovatel'skiy traktornyy  
institut.

(Motor vehicles--Engines--Oil filters)

KEMPINSKIY, Mikhail Mendeleovich; RIFTIN, L.P., kand.tekhn.nauk, retsenzent;  
SMIRNOV, G.A., kand.tekhn.nauk, red.; SIMONOVSKIY, N.Z., red.  
izd-va; SPERANSKAYA, O.V., tekhn.red.

[Designing mechanisms for use in measuring instruments]  
Proektirovanie mekhanizmov izmeritel'nykh priborov. Moskva,  
Gos.nauchno-tekhn.izd-vo mashinostroit.lit-ry, 1959. 140 p.  
(MIRA 12:6)

(Measuring instruments)

SMIRNOV, G. A.

The following is among dissertations of the Leningrad Polytechnic Institute imeni Kalinin:

"Application of Electrical Recorders in the Investigation of Machines." 12 May 1952. On the basis of theoretical and experimental investigations, equations and data are proposed which can have practical application in the perfection of existing electromagnetic chronographs in connection with problems of the experimental investigation of high-speed automatic and semiautomatic machines.

SO: M-1048, 28 Mar 56 (*date not specified in M-1048*)

*Elektricheskie khronografi, 1952.*

SMIRNOV, G.A.


Accuracy of the method of markings. Nauch.-tekhn.inform.biul.  
LPI no.11:19-31 '58. (MIRA 12:11)  
(Electromechanical analogies)

SOV/145-59-3-7/21

The Operating Conditions of an Automobile and the Selection of Power Transmission Gear Ratios

already recommended by Doctor of Technical Sciences N.N. Kulikov in 1951. There are 1 set of graphs, 1 graph and 2 Soviet references.

ASSOCIATION: MVTU imeni Bauman (MVTU imeni Bauman)



Card 2/2

KOLCHIN, N.I., zasl. deyatel' nauki i tekhniki RSFSR, doktor tekhn. nauk, prof.; VEYTS, V.L., kand. tekhn. nauk; MITSENGENDLER, M.L., inzh.; SMIRNOV, G.A., kand. tekhn. nauk, retsenzent; GINZBURG, Ye.G., kand. tekhn.nauk, red.; ONISHCHENKO, R.N., red. izd-va; BARDINA, A.A., tekhn. red.

[Fundamental information on gear transmissions and meshings]  
Osnovnye svedeniia o zubchatykh peredachakh i zatsepleniakh.  
Pod obshchei red. N.I.Kolchina. Moskva, Mashgiz, 1962. 144 p.  
(Bibliotekhka zuboreza, no.1) (MIRA 16:1)  
(Gearing)

RABKIN, Boris Naumovich; SMIRNOV, Georgiy Alekseyevich; KOLOTUSHKIN,  
V.I., redaktor; SKVORTSOV, I.M., tekhnicheskii redaktor

[Handbook on the use of lubricants in peat enterprises] Ru-  
kovodstvo po primeneniiu smazochnykh materialov na torfopred-  
priiatiakh. Moskva, Gos.energ.izd-vo, 1955. 94 p.  
(MLBA 9:3)

(Lubrication and lubricants) (Peat)



SMIRNOV, G.A., inzh.

PMG-29 fire engine for fire-fighting at milled-peat works.  
Torf.prom. 36 no.4:25-27 '59. (MIRA 12:9)

1. Giprotoorf.  
(Peat industry--Equipment and supplies) (Fire engines)

SMIRNOV, G. A.

In the permanent commission of equipment for peat winning  
and processing. Torf.prom. 39 no.4:39 '62. (MIRA 15:7)  
(Peat machinery)

SMIRNOV, G.A., inzh.; METELKIN, A.G., inzh.

Oil purification by a full-flow reactive centrifuge. Trakt. i  
sel'khoz mash. 31 no.12:9-11 D '61. (MIRA 15:1)

1. Nauchno-issledovatel'skiy avtotraktornyy institut (for Smirnov).
2. Vladimirskiy traktornyy zavod (for Metelkin).  
(Oil filters) (Tractors--Engines)

SMIRNOV, G. A.

Smirnov, G. A. "The method of mud treatment of ICR diseases at the Pysatigorsk spa", Sbornik trudov leningr. nauch.-issled. in-ta po boleznym ucha, nosa, gorla i rechi, Vol. LX, 1948, p. 229-33.

SO: U - 3042, 11 March 53, (Letopis "Zhurnal "nykh Statey, No. 7, 1949)

SMIRNOW, Grigoriy Aleksandrovich.

[Otorhinolaryngology for the polyclinic and out patient physician]  
Ote-rine-laringeologiya ambulatorno-poliklinicheskogo vracha; v gra-  
ficheskom izobreashenii. Leningrad, Medgiz, 1955. 250 p. (MLRA 9:5)  
(OTORHINOLARYNGOLOGY)

SMIRNOV, G.A. (Kolpino)

Collapsible four-pole swing for studying and training the vestibular  
apparatus. Vest. oto-rin. 17 no.5:74 S-O '55. (MLRA 9:2)

(VESTIBULAR APPARATUS,  
collapsible swing for funct. test & train. of  
vestibular appar.)

SMIRNOV, G. A. Cand Med Sci -- (diss) "Principles of ~~XXX~~ Structure and Contents of a Practical Manual on the Diseases of the Ear, Nose, and Throat ('Oto-Rhino-Laryngology in a Graphical Presentation for the Ambulatory-Polyclinic Physician')." ~~XXXXXXXXXX~~ Len, 1957. 10 pp 20 cm. (Len State Order of Lenin <sup>Inst</sup> ~~Univ~~ for the Advanced Training of Physicians im S. M. Kirov), 200 copies (KL, 25-57, 119).

SMIRNOV, G.A., kand.med.nauk; SMOL'NIKOVA, A.S., starshaya meditsinskaya sestra

Nutrition of patients following tonsillectomy. Med. sestra 21 no.4:  
34-35 Ap '62. (MIRA 15:4)

(TONSILS--SURGERY)

(DIET IN DISEASE)



SMIRNOV, G.A., kand.med.nauk

Exercise therapy in chronic tonsillitis before and after tonsillectomy.  
Med. sestra 21 no.5:46-47 My '62. (MIRA 15:5)

1. Iz Otorinolaringologicheskogo otdeleniya Kolpinskoy gorodskoy  
ob'yedinennoy bol'nitsy No.1.  
(EXERCISE THERAPY) (TONSILS--DISEASES)

SMIRNOV, G.A., kand.med.nauk.

Aerosol therapy in diseases of the upper respiratory tract.  
Med. sestra 22.no.4:35-39 Ap '63. (MIRA 16:7)

1. Iz Kolpinskoy gorodskoy ob'yedinennoy bol'nitsy No.1 Leningrada.  
(RESPIRATORY ORGANS—DISEASES) (AEROSOL THERAPY)

SMIRNOV, G.A., kand.med. nauk

Plastic surgery on the tympanal organ. Med. sestra 22 no.8:  
43-49 Ag'63. (MIRA 16:10)

1. Iz otorinolaringicheskogo otdeleniya Kolpinskoy gorodskoy  
ob'yedinennoy bol'nitsy No.1.  
(TYMPANAL ORGAN—SURGERY)

KOSUL'NIKOVA, G.M., operatsionnaya meditsinskaya sestra; SMIRNOV, G.A.,  
kand.med.nauk

Surgical gauze helmet-mask. Med. sestra 22 no.10:56 0'63  
(MIRA 16:12)

1. Iz Otorinolaringologicheskogo otdeleniya Kolpinskoy gorodskoy ob'yedinennoy bol'nitsy No.1, Leningrad.

SMIRNOV, G.A.; KOZULITSYNA, T.I.

Comparative study of phthivazide and tubazid metabolism in the  
body of tuberculosis patients. Sov. med. 26 no.11:84-89 N°62  
(MIRA 17:3)

1. Iz 1-go terapevticheskogo otdeleniya (zav. - deystvitel'-  
nyy chlen AMN SSSR prof. N.A. Shmelev), biokhimicheskoy labo-  
ratorii (zav. - doktor med. nauk R.A. Radkevich) i mikrobio-  
logicheskoy laboratorii (zav. - prof. A.I. Kagramanov) Insti-  
tuta tuberkuleza AMN SSSR (dir. - deystvitel'nyy chlen AMN  
SSSR prof. N.A. Shmelev).

GREBENNIK, L.I.; GNEVKOVSKAYA, T.V.; SMIRNOV, G.I.

Metabolism of vanillin as a phthalazide ingredient. Vop.  
med. khim. 9 no.2:127-133 Mr.-Ap '63. (MIRA 17:8)

1. Otdel khimioterapii Vsesoyuznogo nauchno-issledovatel'skogo  
khimiko-farmatsevticheskogo instituta imeni Ordzhonikidze i  
Institut tuberkuleza AMN SSSR, Moskva.

SMIRNOV, G.

Specialized automotive transportation firms. Avt. transp. 43  
no.1:27-29 Ja '65. (MIRA 18:3)

1. Transportnoye upravleniye Glavsevkavstroya.

SMIRNOV, G., podpolkovnik

On the same wave; a sketch. Komm. Vooruzh. Sil 5 no.22:48 N '64.  
(MIRA 17:12)



SMIRNOV G. A.

USSR/Geology  
Stratification

Oct 1947

"Zilair Layers on the Western Slopes of the Central Urals," G. A. Smirnov, Ural State Geol Adm, 2 pp

"Dok Akad Nauk SSSR, Nova Ser" Vol LVIII, No 3

In 1930, Librovich first informed the world of presence of a Zilair strata in south part of the Urals. Author states results of many years of work he conducted to determine the true nature of the Zilair layers he discovered in the southern part of the Ufimsk amphitheater. Discusses nature of these deposits and some of the animal and vegetable remains obtained from them. Submitted by Academician D. V. Malivkin, 23 Apr 1947.

49721

SEKHNOV, G. A.

35720. Zilairskaya svita v yuzhnoy chasti uralskogo amfiteatra.  
zapiski ural'skogo geol. O-va, VYP. 2, 1948, S. 59-61.

30: Leto iz' Zhurnal'nykh Ste'oy, No. 49, 1949

SMIRNOV, G. A.

PA-67T37

USSR/Geological Prospecting

May 1948

Coal  
Stratification

"Mesozoic Carboniferous Deposits in the Southern Part of the Western Slope of the Central Urals," G.A. Smirnov, 24 pp

"Dok Ak Nauk SSSR, Nov Ser" Vol II, No 6

Written to supply needed information on the central rock coal deposits of the Urals. Data used here was first obtained by G.M. Teodorovich. Draws conclusions about the nature of the deposits of this central coal basin. Indicates that there is relation between the

700

67T37

USSR/Geological Prospecting (Contd)

May 1948

western Carboniferous layers and the basic terrigenous layers of the eastern slopes. Submitted by Academician D.V. Mal'vin 23 Mar 1948.

67T37

1ST AND 2ND COPIES      PRECIPITATE AND PROPERTIES INDEX

8

CA

Iron quartzite in a profile of the proterozoic era in the Middle Urals. G. A. Smirnov and T. A. Smirnova. *Doklady Akad. Nauk (U.S.S.R.)* 61, 337 (1978). The mineralogical compn. of the iron quartz under discussion consists of 30-60% SiO<sub>2</sub> and 30-60% magnetite, with some hornblende, apatite, and occasionally some hematite. An av. compn. of the ore (the coverage of 53 analyses) is: SiO<sub>2</sub> 40.73%, TiO<sub>2</sub> 0.2, Fe<sub>2</sub>O<sub>3</sub> 42.18, FeO 14.60, S 0.02%, and P 0.07%. The geologic origin of the deposit is discussed. J. S. Jølle

ASH-SLA AFFALLUGICAL LITERATURE CLASSIFICATION

REGIONAL STRATIGRAPHY      GEOLOGICAL MAP      GEOLOGICAL MAP      GEOLOGICAL MAP

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

G. A. Smirnov, T. A. Smirnova

TA 11 49TH

USSR/Geological Prospecting  
Iron Ores

Jul 48

"Ferrous Quartzites in the Proterozoic Strata of the Central Urals," G. A. Smirnov, T. A. Smirnova, Ural State Geol Adm, 2 $\frac{1}{2}$  pp

"Dok Ak Nauk SSSR" Vol LXI, No 2

Ferrous quartzites, although among the most common of the poorer iron ores, are somewhat unusual in the Urals. Authors present results of investigations in 1941. Submitted 22 Apr 48.

11/49TH

S. INCT, C. A.

28295

Счетыстыченныи тронитсье нычнду спедни и юшныи уралон. Извостия всесойуз.  
Геогр. С-ВА 1949, Еп. С, С. 543-44 - Библиог: 7 назв. Хренев, С. П.  
синотичьскыи нычсологичьскыи кал географичьскыи наука - см. 28288  
5. Биологичьскыи наука

SC: LETOTIS NO. 34

SPIRNOV, G. A.

"Some Comments in regard to N. P. Kheraskov's Article 'Principles of compilation of tectonic maps on folded Regions similar to those of the Southern Ural Regions', Iz. Ak. Nauk SSSR, Ser. Geol., 3, 1949.

SMIRNOV, G. A.

"Certain Regularities in the Developments of Nonconformities in Structures," Iz. Ak. Nauk SSSR, Ser. Geol., No. 3, 1949.



SMIRNOV, G.A.

New data on the geology of the Ufa amphitheater. Biul. MOIP.

Otd. geol. 24 no.5:20-30 '49.

(MIRA 11:5)

(Ural Mountains--Geology, Stratigraphic)

SMIRNOV, G.A.

Paleoecological study of the Vise stage in the central Urals.

Biul. MOIP. Otd. geol. 26 no.4:74-76 '51.

(MIRA 11:5)

(Ural Mountains--Paleontology)

(Paleoclimatology)

SMIRNOV, G.A.

New find of the Ordovician fauna in the Urals. Biul. MOIP. Otd.  
geol. 26 no.4:77-78 '51. (MIRA 11:5)  
(Ural Mountains-- Paleontology)

SMIRNOV, G. A.

Geology

For the honor of national geology ("Outline history of geological research in Russia." A. V. Khabakov. Reviewed by G. A. Smirnov)., Izv. AN SSSR. Ser. geol., no. 1, 1952.

Monthly List of Russian Accessions, Library of Congress, May 1952. Unclassified.

SMIRNOV, G. A.

Geology, Stratigraphic - Ural Mountain Region

Oblique stratification of sandstone in a Lower Carboniferous coal seam on the eastern slope of the Central Urals. Izv. MOIP. Otd. geol. 27 no. 3, 1952.

Monthly List of Russian Accessions, Library of Congress. November 1952. UNCLASSIFIED.

SMIRNOV, G.A.

[The age of the earth] O vozraste zemli. Moskva, Izd-vo Znanie, 1953. 31 p.  
(MIRA 6:9)  
(Earth--Age)

SMIRNOV, G.A.

Materials on the paleogeography of the Paleozoic of the Urals;  
article 1; Middle Carboniferous. Trudy Gor.-geol.inst. no.22;

(MLRA 7:3)

3-33 '53.

(Ural Mountains--Paleogeography) (Paleogeography--Ural Mountains)

(Ural Mountains--Geology, Stratigraphic)

(Geology, Stratigraphic--Ural Mountains)

SMIRNOV, G. A.

USSR/Geology - Granite, Urals

21 Jun 53

"The Age of Granite Intrusives in the Urals," G. A. Smirnov and T. A. Smirnova, Mining-Geological Inst, Ural Affiliate, Acad Sci USSR

DAN SSSR, Vol 90, No 6, pp 1139-1141

State that some granite blocks of the Urals stratigraphically inconsistently occur in the middle Devonian and in the Vizeyskiy deposits; that is, they are deposits belonging to the age of the great transgression. Mention that a greater positive role in solving this important problem could be performed by

269T61

mass application of radiometric methods -- the introduction of which are urgently necessary -- for determining the age of mineral rocks. Presented by Acad D. S. Belyankin (deceased) 24 Apr 53.



SMIRNOV, G. A.

USSR/ Geology

Card 1/1      Pub. 22 - 32/47

Authors : Smirnov, G. A., and Svirshchevskiy, I. S.

Title : ~~XXXXXXXXXXXXXXXXXXXX~~  
The paleographic value of the diagonal stratification of sandstones of the coal-bearing stratum in the Kizel region of the Ural

Periodical : Dok. AN SSSR 100/6, 1151-1153, Feb 21, 1955

Abstract : Geological data are presented concerning the diagonal stratification of the sandstones found in the carboniferous strata of the Kizelovsk region in the Urals. Ten USSR references (1926-1954). Illustration.

Institution : Academy of Sciences USSR, Ural Branch, Mining-Geological Institute

Presented by: Academician N. M. Strakhov, December 14, 1954

SMIRNOV, G.A.; IVANOV, A.N., doktor geologo-mineralogicheskikh nauk, redaktor;  
IL'INA, N.S., redaktor; MAKUNI, Ye.V., tekhnicheskii redaktor.

[Ufa amphitheater] Ufinskii amfiteatr. Part 1. [Stratigraphic description]  
Stratigraficheskoe opisanie. (Moskva, Izd-vo Akademii nauk SSSR, 1956. 172p.  
(Akademiia nauk SSSR. Ural'skii filial, Sverdlovsk, Gorno-geologicheskii  
institut. Trudy no.25) (MLRA 9:6)  
(Ural Mountain region--Geology, Stratigraphic)

15-57-5-5692

The Role of V. N. Tatishchev in the Development (Cont.)

of supervisors from Moscow. He established the first mining and manufacturing codes in Russia; he did much to purify Russian mining terminology of foreign terms. It was due to his initiative that the plant laboratories began collections of ores and minerals which later developed into local museums; moreover, it was under his direction that the mineralogical collection was set up at the "Cabinet of Curiosities" organized in St. Petersburg in 1719. The maps of the Urals made under Tatishchev's direction and with his personal participation were not outstanding in their accuracy, but they did indicate the ore deposits and mineral sources known at that time. V. N. Tatishchev tried to get the government to send experienced geodesists who knew astronomy to the Ural district. In Tatishchev's published works we find his views on the nature of fossils in general, on the nature of the mammoth bones in particular, on the origin of hard coal from vegetable remains, on the origin of caves, on the curative values of certain mineral waters in the Urals, etc.

Card 2/2

D. I. G.

Translation from: Referativnyy zhurnal, Geologiya, 1957, Nr 1,  
p 6 (USSR)

AUTHOR: Smirnov, G. A.

TITLE: Aleksey Nikolayevich Ivanov, the Oldest Geologist  
of the Urals (Stareyshiy geolog Urala Aleksey  
Nikolayevich Ivanov)

PERIODICAL: Tr. Gorno-geol. in-ta. Ural'sk. fil. AN SSSR, 1956,  
vol 24, pp 5-9

ABSTRACT: Aleksey Nikolayevich Ivanov, director of the  
stratigraphic and paleontologic laboratories of  
the Mining Geological Institute at the Ural branch  
of the Acad. Sci. USSR, was born in 1869. In his  
youth he became acquainted with mining at the  
hard coal fields, where he worked as  
a mine surveyor and studied the methods of developing

Card 1/2

Aleksey Nikolayevich Ivanov, the Oldest Geologist of the Urals  
(Cont.)

natural resources under the guidance of his father, N. P.  
Ivanov. In 1917 he joined the Perm' University as an  
assistant in the department of geology. In 1919 he was  
assigned by the geological commission to begin the planimetric  
geological investigation on the northern slope of the Urals;  
here he spent 15 years studying the hard coal deposits and  
searching for the new sources of this material. He introduced  
much new knowledge into the stratigraphy of hard coal deposits,  
and particularly into the coal stratigraphy of the Tournaisian  
stage. At the same time he spent many years teaching in the  
Sverdlovsk Mining Institute. In the 1930's he played a major  
role in the creation of the Ural Geological Museum in  
Sverdlovsk and was particularly instrumental in the develop-  
ing of its stratigraphic division. Between the 1930's and  
the present time he spent much effort on investigating of the  
Ordovician deposits at the western slope of the Urals, and  
especially on the study of the fossils in these formations.

Card 2/2

D.I.G.

SMIRNOV, G.A. (Sverdlovsk)

Fossil holes in limestones. Priroda 45 no.6:115-116 Jo '56.  
(MLRA 9:8)

1. Ural'skiy filial Akademii nauk SSSR.  
(Limestone) (Paleogeography)

~~SMIRNOV, G.A.~~; KHABAKOV, A.V., kand. geol.-mineral. nauk, otv. red.; POTAPOVA,  
T.S., red.; IZMODENOVA, L.A., tekhn. red.

[Materials on the paleogeography of the Urals; Visean stage] Materialy  
k paleogeografii Urals; vizeiskii iarus. Sverdlovsk, 1957. 112 p.  
(Akademiia nauk SSSR, Ural'skii filial, Sverdlovsk. Gorno-geologiches-  
skii institut. Trudy, no.29). (MIRA 11:3)  
(Ural Mountains--Paleogeography)

SMIRNOV, G.A.; SMIRNOVA, T.A.

Basic paleogeographic features of the Urals during the Famennian stage. Dokl. AN SSSR 135 no.4:937-939 '60. (MIRA 13:11)

1. Gorno-geologicheskii institut Ural'skogo filiala Akademii nauk SSSR. Predstavleno akademikom D.V.Nalivkinym.  
(Ural mountain region--Paleogeography)

SMIRNOV, G.A.; SMIRNOVA, T.A.; KHABAKOV, A.V., otv.red.; TAMKOVA, N.F.,  
tekhn.red.

[Materials on the paleogeography of the Urals] Materialy k  
paleogeografii Urala. Ocherk 3. Famenskiĭ vek. Sverdlovsk, 1961.  
83 p.. (Akademiia nauk SSSR. Ural'skii filial, Sverdlovsk.  
Gorno-geologicheskii institut. Trudy, no.60). (MIRA 16:2)  
(Ural Mountains—Paleogeography)



SMIRNOV, G.A.; GROZDILOVA, L.P.; LEBEDEVA, N.S.; VOSHCHAKIN, M.A.

Characteristics of the boundary layers between the Tounaisian and  
Visean stages on the western slope of the central Urals. Dokl.  
AN SSSR 149 no.2:395-398 Mr '63. (MIRA 16:3)

1. Institut geologii Ural'skogo filiala AN SSSR. Predstavleno  
akademikom N.M.Strakhovym.  
(Ural Mountains—Geology, Stratigraphic)

EYNOR, O.L.; BEL'GOVSKIY, G.L.; SMIRNOV, G.A.

Basic characteristics of the geological development and paleogeography of the U.S.S.R. in the Carboniferous. Sov. geol. 8  
no.8:32-44 Ag '65. (MIRA 18:10)

1. Kiyevskiy gosudarstvennyy universitet; Vsesoyuznyy nauchno-issledovatel'skiy geologicheskii institut i Gorno-geologicheskii institut Ural'skogo filiala AN SSSR.

SMIRNOV, G.A.

Significance of acetylation and oxidation in the metabolism  
of preparations of isonicotinic acid hydrazide. (In Russian)  
LI no.1:50-53 Ja-F '65.

1. I terapevticheskaya klinika i biokhimiicheskaya laboratoriya  
TSentral'nogo nauchno-issledovatel'skogo instituta  
Ministerstva zdravookhraneniya SSSR.

GRIGOR'YEV, M.A., kand. tekhn. nauk; SMIRNOV, G.A., inzh.

Standardization of the rotors of tractor and motortruck oil  
centrifuges. Trakt. i sel'khoz mash. 33 no.11:15-18 N '63.  
(MIRA 17:9)

1. Gosudarstvennyy soyuznyy ordena Trudovogo Krasnogo Znameni  
nauchno-issledovatel'skiy avtomobil'nyy i avtomotornyy institut  
(for Grigor'yev). 2. Gosudarstvennyy soyuznyy nauchno-issledo-  
vatel'skiy traktornyy institut (for Smirnov).

L-60277-65

ACCESSION NR: AT5019453

UR/0000/63/000/000/0006/0017  
621.431.73-73(06)

AUTHOR: Smirnov, G. A. (Engineer)

13

0+1

TITLE: Development of the designs of a series of rotors of reactive centrifuges used in diesel tractor engines

SOURCE: Seminar po ochistke vozdukh, topliva i masla, 1962. Trudy, no. 3. Moscow, NAMI, 1963, 6-17

TOPIC TAGS: reactive centrifuge, diesel engine, oil purification, rotor

ABSTRACT: The object of the work (started in 1962) was to develop a standard design of several rotors of different size to be used in reactive centrifuges for oil purification in diesel tractor engines. Russian mass-production of the reactive centrifuges for diesel-type tractors was the ultimate target of this effort. Such centrifuges effect better oil purification than the finest oil filters. The development program was based on three British-made (Glasier Company) reactive centrifuges: type GF-0, GF-1, and GF-2. These centrifuges were mounted on a branch-line of the main oil circulation system or directly on the central oil circulation line. The

Card 1/2

L 60277-65

ACCESSION NR: AT5019453

tests were conducted under various simulated operational conditions. Aluminum and bronze served as construction materials. For a nominal 5000 rpm the basic dimensions and other characteristic features such as volume of the rotor (in  $\text{cm}^3$ ), dry weight of the rotor (in kg's), permissible rotor unbalance (in  $\text{gram}\cdot\text{cm}$ ), etc. were determined for a series of rotors. On the basis of this study optimum rpm's for maximum oil purification were determined for each rotor of the standard series. Finally, for each rotor, the oil throughput ( $\text{kg}/\text{min}$ ) was plotted as a function of inlet pressure ( $\text{kg}/\text{cm}^2$ ) and rotor rpm. Two cases were considered: 1. centrifuge installed directly on the central oil circulation line, and 2. on the by-pass line. Orig. art. has: 5 tables and 5 figures.

ASSOCIATION: NATI

SUBMITTED: 28Aug63

ENCL: 00

SUB CODE: PR, FP

NO REF SOV: 000

OTHER: 000

*bsb*  
Card 2/2

SMIRNOV, G.A.

Treatment of pulmonary tuberculosis with antibacterial preparations  
in the Yakut A.S.S.R. Probl. tub. 38 no. 5:33-36 '60.

(MIRA 14:1)

(TUBERCULOSIS)

~~SHMELEV~~, N.A., prof.; KOZULITSYNA, T.I., kand.med.nauk; SMIRNOV, G.A.,  
aspirant

Problem of rapid inactivation of phthivazid in the body of  
tuberculosis patients. Probl.tub. no.6:32-37 '61.

(MIRA 14:9)

1. Iz Instituta tuberkuleza (dir. - chlen-korrespondent AMN  
SSSR prof. N.A. Shmelev) AMN SSSR.  
(ISONICOTINIC ACID) (TUBERCULOSIS)



SMIRNOV, G.A.; KOTLYASHIN, G.I.

Relation of the toxic action of pathivazide to the nature of  
its conversion in the body. Top. med. kniz. 8 no.4:401-406  
Jl-Ag '62. (MIRA 17:11)

1. 1-ye terapevticheskoye otdeleniye, biokhimicheskaya i mikro-  
biologicheskaya laboratoriya Instituta tuberkuleza Ministerstva  
zdravookhraneniya SSSR, Moskva.

SMIRNOV, G.A.; KOZULITSYNA, T.I.

Comparison of chemical and microbiological methods of determining the inactivation of preparations of isonicotinic acid hydrazide. Lab. delo no.1:48-52 '64. (MIRA 17:4)

1. 1-ye terapevticheskoye otdeleniye, biokhimicheskaya i mikrobiologicheskaya laboratoriya Tsentral'nogo instituta tuberkuleza (direktor - deystvitel'nyy chlen AMN SSSR prof.N.A.Shmelev) Ministerstva zdravookhraneniya SSSR, Moskva.

VELICHKIN, I.N., kand. tekhn. nauk; SMIRNOV, G.A., inzh.; NEZELENOV, Yu.V.

Increasing the operational reliability and the effectiveness of oil  
purification systems of tractor engines. Trakt. i sel'khoz mash. no.7:  
6-8 J1 '65. (MIRA 18:7)

1. Gosudarstvennyy soyuznyy nauchno-issledovatel'skiy traktorny institut.

L 8188-66

ACC NR: AP5025428

SOURCE CODE: UR/0145/65/000/001/0118/0126

AUTHOR: Smirnov, G. A. (Candidate of technical sciences, Docent)

ORG: MVTU im. N. E. Bauman (MVTU)

TITLE: Distribution of traction forces among the wheels of multi-axle driven automobiles during travel on irregularities

SOURCE: IVUZ. Mashinostroyeniye, no. 7, 1965, 118-126

TOPIC TAGS: highway vehicle data, vehicle engineering, traction torque, automobile traction, tire torque

ABSTRACT: The distribution of normal forces (and thus traction forces) in a multi-axle automobile going over a bump is considered by analyzing the simplified model shown in Fig. 1. The equations for angle  $\beta$  and the reaction forces  $R'_i$  are derived as

$$\operatorname{tg} \beta = \frac{n \left[ \frac{Q_s}{2} a \pm \frac{P_1}{2} h_s + \frac{P_w}{2} h_w + \frac{P_{wp}}{2} h_{wp} + \Sigma (P_n r_{s,i}) \right] - \frac{Q_s}{2} \Sigma l_i}{c_{\text{equ}} [n \Sigma l_i^2 - (\Sigma l_i)^2]}$$

$$R'_i = \frac{1}{n} \left\{ \frac{Q_s}{2} - (\Sigma l_i - n l_i) \frac{n \left[ \frac{Q_s}{2} a \pm \frac{P_1}{2} h_s + \frac{P_w}{2} h_w + \right]}{n \Sigma l_i^2 - (\Sigma l_i)^2} \right\}$$

Card 1/4

UDC: 629.114.4

L 8188-66

ACC NR: AP5025428

$$R'_i = \frac{1}{n} \left[ \frac{c_{\text{equ}} h - (\Sigma l_i - n l_i) \frac{c_{\text{equ}} h n l_i - c_{\text{equ}} h \Sigma l_i}{n \Sigma P_i - (\Sigma l_i)^2}} \right]$$

By assuming the tangential elasticity of all tires as equal and the dynamic tire radius equal to the radius of curvature of the tire, the equation for the driving or braking (minus sign) forces is derived as

$$P_{xi} = \frac{P_i}{2n} - \frac{h c_{\text{equ}}}{n c_t \lambda} \left[ 1 + (\Sigma l_i - n l_i) \frac{\Sigma l_i - n l_i}{n \Sigma P_i - (\Sigma l_i)^2} \right]$$

(where  $c_t$  = tire stiffness;  $\lambda$  = tangential stiffness;  $\Sigma P_{ki} = P_{\Sigma/2}$ ) for the case of a blocked transmission and equal drive stiffness between tires. This equation holds only for wheels which are in contact, and the whole load is redistributed on the remaining wheels when one or more wheels loses contact. An example is presented showing the distribution of driving torques in a four-axle automobile. The sum of the maximum deviations from the average torque is also plotted as a function of number of axles and axle spacing. The heights  $h_1$  of a bump for which an idle torque develops and  $h_3$  for which slipping of a wheel occurs are derived as

$$h_1 = \frac{P_i \lambda c_t}{2 n c_{\text{equ}} h}$$

and

$$h_3 = \frac{\lambda c_t (P_i - \varphi Q_i)}{2 n h (\varphi c_{\text{equ}} c_t \lambda + c_{\text{equ}})}$$

Card 3/4

26(2)

PHASE I BOOK EXPLOITATION

SOV/3155

Smirnov, Gennadiy Dmitriyevich

Elektronnyye tsifrovyye mashiny (Electronic Digital Computers) Moscow,  
Gosenergoizdat, 1958. 87 p. (Series: Massovaya radiobiblioteka, vyp. 315)  
42,500 copies printed.

Ed.: V.K. Zeydenberg; Tech. Ed.: G.Ye. Lartionov; Editorial Board:  
A.I. Berg, F.I. Burdakov, V.A. Burlyand, V.I. Vaneyev, Ye.N. Genishta,  
I.S. Dzhit, A.M. Kanayeva, E.T. Krenkel', A.A. Kulikovskiy, A.D. Smirnov,  
P.I. Tarasov, and V.I. Shumshur.

PURPOSE: The book is intended for radio amateurs and other readers familiar  
with the fundamentals of radio engineering.

COVERAGE: The author outlines the mathematical principles underlying the  
construction of electronic computers and describes their principle of  
operation. He investigates the circuits of separate computer components  
and units and briefly describes their characteristic features. In a  
brief historical review he enumerates recent achievements in computer  
engineering and announces a projected increase in Soviet production of

Card 1/3

Electronic Digital Computers

SOV/3155

Control Devices

75

Check of Computations

80

Input and Output

83

Applications of Electronic Digital Computers

84

AVAILABLE: Library of Congress (QA76.5.S57)

Card 3/3

JP/36  
2048-60

SMIRNOV, Gennadiy Dmitriyevich; MEDVEDEV, I.M., podpolkovnik, red.;  
GRIBNIS, N.V., tekhn. red.

[Navigational satellites] Navigatsionnye sputniki. Moskva,  
Voenizdat, 1963. 87 p. (MIRA 16:6)  
(Artificial satellites in navigation)



1ST AND 2ND ORDERS										PROCESSES AND PROPERTIES INDEX										3RD AND 4TH ORDERS																																																																					
C.A.																				11-9																																																																					
<p>The action of acetylcholine upon the rhythmical contractions of the skeletal muscle. Kh. S. Koshtoyants, G. D. Smirnov, and K. A. Laricheva. <i>Compt. rend. acad. sci. U.R.S.S.</i> 23, 209-21 (1969) (in English).--Specimens of <i>Rana temporaria</i> were injected with 3-4 drops of 1% curare soln. and allowed to lie on snow for several hrs. The sartorius muscles were then isolated and placed in Biedermann's soln. (I) and the spontaneous contractions recorded. Addn. of acetylcholine (II) at concns. of <math>1-3 \times 10^{-6}</math> resulted in a slowing of the rhythm 2-3 times or complete stoppage. Addn. of atropine (III) in concns. of <math>1-3 \times 10^{-6}</math> after addn. of II caused the contraction-rate to rise above its former value. Addn. of II, even to a concn. of <math>1 \times 10^{-6}</math>, after III, had no effect on the rhythm. When curine at a concn. of <math>1 \times 10^{-6}</math> was added to the I, the rhythm was not affected, but the amplitude of the contractions increased considerably. Subsequent addn. of II produced a sharp decrease in the amplitude and a slowing of the rhythm.</p> <p style="text-align: right;">Marshall E. Deutsch</p>																																																																																									
ASB-51A METALLURGICAL LITERATURE CLASSIFICATION																																																																																									
<table border="1"> <thead> <tr> <th colspan="10">1ST AND 2ND ORDERS</th> <th colspan="10">PROCESSES AND PROPERTIES INDEX</th> <th colspan="10">3RD AND 4TH ORDERS</th> </tr> </thead> <tbody> <tr> <td colspan="10"></td> <td colspan="10"></td> <td colspan="10"></td> </tr> </tbody> </table>																														1ST AND 2ND ORDERS										PROCESSES AND PROPERTIES INDEX										3RD AND 4TH ORDERS																																							
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SMIRNOV, G. D.

38778  
USSR/Medicine - Sulfates - Effect Nov 1947  
Medicine - Nervous System, Neuromuscular

PA 38778  
"Question of Mechanisms of Effect of Diisopropyl-  
fluorophosphates," G. D. Smirnov, Laboratory of Evo-  
lutionary Physiology, Institute of Evolutionary Mor-  
phology Imeni A. N. Severtsov, Academy of Sciences  
of the USSR, 4 pp

"Dokl Ak Nauk" Vol LVIII, No 4

Much research has been conducted on the effect of  
acetylcholine on the actions of the nerve and neuro-  
muscular synapses. Recently, however, a new substance,  
diisopropylfluorophosphate, which evidences a very  
strong anti-cholinesterase effect was discovered.

38778

USSR/Medicine - Sulfates - Effect (Contd) Nov 1947

Author discusses some of the properties and charac-  
teristics of this new chemical compound. Submitted  
by Academician I. S. Bertshavill, 17 Aug 1947.

38778

SMIRNOV , G. D.

PA 7770

USSR/Medicine - Heart, Cardiography  
Medicine - Invertebrates

Apr 1948

"Features of Electrocardiograms of Invertebrata  
(Grape Snails)," G. D. Smirnov and T. M. Turpayev,  
Inst of Evolutionary Morph imeni A. N. Severtsov,  
Acad Sci USSR, 3 pp

"Dok Ak Nauk SSSR" Vol LX, No 3

Experiments and studies on electrocardiograms showed  
that these are dependent not only on factors relative  
to development of excitation in myocardium but on sum  
of processes which result from coordinated action of  
various parts of heart. Submitted by Acad I. I.  
Shmal'gauzen 27 Feb 1948.

7770

SMIRNOV, G. D.

PA 53/49157

USSR/Medicine - Acetylcholine and Choline Oct 48  
Derivatives  
Medicine - Biochemistry

"Acetylcholine and Cholinesterase Content of the  
Cardiac Tissues in Various Animals," G. D. Smirnov  
Ts. V. Serbenyuk, Inst of Evolutionary Morph  
Isent A. I. Severtsov, Acad Sci USSR, 3 pp

"Dok Ak Nauk SSSR" Vol LXII, No 5

Tabulates comparative data on the reaction of the  
heart, or parts of the heart, to acetylcholine,  
and the cholinesterase content. Data indicates  
that cholinesterase activity is not a sign of

a cholinergic condition in the myocardium, and is  
not directly connected with its innervation. Sub-  
mitted by Acad I. A. Orbell, 27 Jul 48.

53/49157

53/49157

1ST AND 2ND ORDERS																										3RD AND 4TH ORDERS																									
PROCESSES AND PROPERTIES INDEX																										PROCESSES AND PROPERTIES INDEX																									
<p>Content of acetylcholine and cholinesterase in heart tissues of various animals. G. D. Smirnov and Ts. V. Serbenyuk. <i>Doklady Akad. Nauk S.S.S.R.</i> 63, 725-7 (1948).—Samples (200 mg.) of the tissues, ground with sand, taken up in Ringer soln., were examd. manometrically for cholinesterase (I) activity at 21° for invertebrates and cold blooded animals, at 37.3° for warm-blooded animals. Acetylcholine (II) detns. were made by modified Ringer soln. extn. followed by Straub isolated-heart assay. Content of I and II in the heart shows a distribution, with lower levels in the ventricular tissue, in fish (carp), frog, tortoise, and rabbit. Snails and crayfish have very low total content of I in comparison with fish. No correlation between I and II levels and sensitivity to II could be made. If I is given in mg. of II cleaved by 10n. mg. of tissue per hr., and II is in <math>\gamma/g.</math>, the following values result: snail (total heart) 1.00, II 3.4; crayfish 1.93; —; carp (auricle) 17.2, 0.07, (ventricle) 12.56, 0.03; frog (<i>R. temporaria</i>) (auricle) 0.86, 3.0, (ventricle) 0.72, 2.2; tortoise (auricle) 0.61, 1.5, (ventricle) 0, 0.6; rabbit (auricle) 1.0, 1.8, (ventricle) 0.67, 0.3.</p> <p>G. M. Krasnoludoff</p>																																																			
<p>ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION</p>																																																			
<p>GROUPS</p>																																																			

2A

111

Thiamine levels in the nervous system of the carp family. G. D. Smirnov and L. M. Dykman (A. N. Severtsov Inst. of Animal Morphology, Acad. Sci. U.S.S.R.). *Doklady Akad. Nauk S.S.S.R.* 60, 477-80 (1949). -- Biol.

evaluation (by means of *Endomyces magnusii*) showed that specimens of carp have the following thiamine levels: brain 0.51-0.9  $\gamma$ /g., lateral nerves 0.2-0.42. Rabbits have 1.1-1.87  $\gamma$ /g. in the brain cortex, 0.6-1.275 in white brain matter, and 0.32-0.73 in the sciatic nerve. It is believed that carp are capable of synthesizing the vitamin in vivo. G. M. Kosolapoff

(BA-A III 1a '53:34)

BYZOV, A.L.; SMIRNOV, G.D.

Physiological analysis of blood pressure variations in anemia of the  
central nervous system. Fiziol. zh. SSSR 37 no.5:621-631 Sept-Oct 51.  
(CLML 21:4)

1. Laboratory of General and Comparative Physiology, Institute of Animal  
Morphology imeni A.N. Severtsov of the Academy of Sciences USSR, Moscow.

SMIRNOV, G. D.

Materialistic and idealistic concepts of principles of behavior of animals; discussion on the symposium at the conference of the English Society of Experimental Biology, Physiological Mechanisms in Animal Behavior. Zh. vysshei nerv. deiat. 2 no. 1:133-150 Jan-Feb 1952. (CML 23:3)

1. Moscow.



1. SMIRNOV, G. D.
2. USSR (600)
4. Psychology, Physiological
7. "Physiology of the nervous system." Vol. 1.  
Sechenov, I. M., Pavlov, I.P., Vvedenskiy, N. Ye.  
Sov. kniga No.9, 1952
9. Monthly List of Russian Accessions, Library of Congress, January 1953, Unclassified.

SMIRNOV, G. D., BYZOV, A. L. and RAMPAN, Yu. I.

"Action of Thiol Poisons on Synaptic Transmission of Impulses in Sympathetic Ganglia," Dokl. AN SSSR, 87, No.1, pp 155-158, 1952

Inst. of Animal Morphology im. A. N. Severtsov, AS USSR

Translation W-27579, 27 Aug 53

SMIRNOV, G.D.

SOBOL', S.L.; SMIRNOV, G.D.; ISAKOVA, O.V.; NESMEYANOV, A.N., akademik,  
redaktor; TOPCHIEV, A.V., akademik, redaktor.

[Khachatur Sedrakovich Koshtoiants] Vstup.stat'ia S.L.Sobolia i  
G.D.Smirnova. Bibliografiia sostavlena O.V.Isakovoi. Moskva, 1953.  
59 p. (Materialy k biobibliografii uchenykh SSSR. Seriya biologicheskikh  
nauk: Fiziologiya, vyp.5) (MLRA 7:3)

1. Akademiya nauk SSSR.  
(Bibliography--Koshtoiants, Khachatur Sedrakovich, 1900- )  
(Koshtoiants, Khachatur Sedrakovich, 1900- --Bibliography)

SMIRNOV, G.D.; VINOGRADOV, P.M.

Electrical summation as one of indexes of cerebrocortical function.  
Doklady Akad. nauk SSSR 91 no.2:433-436 11 July 1953. (CML 25:1)

1. Presented by Academician K. M. Bykov 12 May 1953. 2. Institute  
of Animal Morphology imeni A. N. Severtsov, Academy of Sciences USSR.

rb-1320

UESR/Medicine - Physiology

Card 1/2 Pub. 33-6/25

Author : Smirnov, G. D., Byzov, A. L., and Rampan, Yu. I.

Title : Role of tissue sulfhydryl groups and acetylcholine secretion in transmission of excitation in the upper cervical sympathetic ganglia of a cat.

Periodical : Fiziol. zhur. 4, 424-430, Jul/Aug 1954

Abstract : Significance of tissue sulfhydryl groups is indicated in the process of synaptic transmission of excitation in mammals. This again confirms the significance of acetylcholine metabolism in transmission of excitation in the sympathetic ganglia. Results of experiments on cats reveal that interruption in acetylcholine secretion usually takes place after cadmium chloride is injected. This in turn blocks transmission of excitation in the upper cervical sympathetic ganglia. Action on preganglionic part of synapse, within which acetylcholine synthesis takes place, is produced mainly by ions of cadmium. Ezerine briefly renews restorative conductivity after it is injected under conditions of cadmium block. Restoration of acetylcholine secretion takes place during excitation after cysteine is injected, resulting in restoration of nerve impulse transmission across synapse. Diagrams. Nine Soviet and three non-Soviet references.

SMIRNOV, G. D.

"Soviet Report on Montreal International Physiological Congress," Vestnik  
Akademi Nauk SSSR, Vol 24, No 1, pp 80-88, 1954

Translation W-30424, 2 Jun 54

SECHENOV, I.M.; GELLERSHTEYN, S.G.; SMIRNOV, G.D.; KOSHTOYANTS, Kh.S.,  
redaktor; HEDIN, Ye.I., redaktor; ASTAF'YEVA, G.A., tekhnicheskiy  
redaktor.

[Collected works] Izbrannye proizvedeniia. Red. i posleslovie  
Kh.S.Koshtoiantsa. Moskva. Izd-vo Akademii nauk SSSR. Vol.2.  
[Physiology of the nervous system] Fiziologiya nervnoi sistemy.  
1956. 942 p. (MIRA 9:5)

(NERVOUS SYSTEM)

EXCERPTA MEDICA Soc. 2 Vol. 11/4 Physio-biochem-pharm 1956  
SMIRNOV, G. D.

1745. RHYTHMICAL ELECTRICAL PHENOMENA OF THE CNS. THEIR ORIGIN AND FUNCTIONAL SIGNIFICANCE (Russian text) - Smirnov G. D.  
Moscow - USP. SOVR. BIOL. 1956, 42/3 (320-342) Graphs 15 illus. 2

An attempt has been made to explain the origin of the rhythmical variations of electrical potentials of the cerebral cortex by the hypothesis of spontaneous function of cerebral cells. It is supposed to be a reflection of the automatical biochemical functions or the metabolism of the nervous tissue. Experimental findings, on the contrary, show that the activity of ganglion cells in the cortex is dependent on the arrival of afferent impulses through the specific and unspecific pathways.



1745

The impulse of one ganglion cell is passed through the dendrites to the neighbouring cells, together with which they form a chain of neurons. In the circulation of impulses in such cortical and subcortical chains of neurons may be seen the basis of the production of rhythmical variations of electrical potentials. Bajer - Brno (II, 8\*)

SMIRNOV, G.D.; ALADZHALOVA, N.A.

Electrical activity and impedance of the cerebral cortex. Dokl.  
AN SSSR 106 no.3:573-576 Ja '56. (MLRA 9:6)

1. Institut morfologii zhivotnykh imeni A.N. Severtsova i Institut  
biologicheskoy fiziki Akademii nauk SSSR.  
(Cerebral cortex)

SMIRNOV, G. D., Doc Biol Sci -- (diss) "Electrical manifestations in the central nervous system and their changes under *certain effects* ~~the influence of certain stimuli~~ upon tissue metabolism."

Mos, [Publication of Acad Sci USSR], 1957. 24 pp (Acad Sci USSR, Inst of Morphology of Animals im A. N. Severtsov), 220 copies (KL, 52-57, 104)

- 24 -

SMIRNOV G.D.

AUTHOR: Rusinov, V. S., Corresponding Member, Academy of Medicine 30-1-17/39

TITLE: International Convention on Electroencephalography  
(Mezhdunarodnyy kongress po elektroentsefalografii).

PERIODICAL: Vestnik AN SSSR, 1958, Vol. 20, Nr 1, pp. 94-97 (USSR)

ABSTRACT: This congress took place at Brussels from July 21 to July 28, and is part of the first international congress on neurology, taking place at the same time and which includes congresses on neuropathology, neurosurgery, and a congress of the Society for the struggle against epilepsy and a symposium on neuro-radiology. During the last ten years electroencephalography attracted ever growing attention of research workers. This development is closely connected with the general successes achieved by electronics. The congress was devoted to the most urgent questions of modern electrophysiology, viz. to the ontogenetic of the electric activity of the cerebrum of man and of animals, the electroencephalography of conditioned reflexes, the pathology and clinic of epilepsy etc. The Soviet scientists P. I. Bassin, Ye. S. Boya and M. G. Berkov reported on the electromyographical analysis of the changes of the muscular tension as a method of localizing organic affections in the central nervous system. The report delivered by V. S. Rusinov

Card 1/2